

Title (en)
NOVEL 7-SUBSTITUTED DERIVATIVES OF 3-CARBOXY-OXADIAZINO-QUINOLONES, PREPARATION THEREOF AND USE THEREOF AS ANTI-BACTERIAL AGENTS

Title (de)
NEUARTIGE 7-SUBSTIERTE 5-CARBOXY-OXADIAZIN-CHINOLON-DERIVATE, IHRE HERSTELLUNG UND IHRE ANWENDUNG ALS ANTIBAKTERIELLE MITTEL

Title (fr)
NOUVEAUX DERIVES 7-SUBSTITUES DE 3-CARBOXY-OXADIAZINO-QUINOLONES, LEUR PREPARATION ET LEUR APPLICATION COMME ANTI-BACTERIENS

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Abstract (en)
[origin: US2009221565A1] A subject of the invention is the compounds of formula (I): in which either R1 represents H, OH, NH2, -(CH2)m-NR_aR_b (m=0.1 or 2), R_a and R_b represent H, linear, branched or cyclic (C1 -C6) alkyl, (C3-C6) cycloalkyl-(C3-C6)- alkyl, R_c, S(O)₂R_c, C(O)R_c, S(O)₂R_d or C(O)R_d; or R_a and R_b with N form an R_c radical; R_c represents a saturated, unsaturated or 5- or 6-members aromatic ring, containing 1 to 4 heteroatoms chosen from N, O and S, optionally substituted; R_d represents a linear, branched or cyclic (C1-C6) alkyl, optionally substituted by 1 to 4 halogens; or R1 represents R_c or CHReR_c or CHReR_d; R_e represents H, OH, NH2, NH-(C1-C6)-alk or N-(C1-C6)-alk₂, or NH-(C1-C7)-acyl or NHR_c; R2 represents H, (CH2)m-NR_aR_b, R_c, CHReR_c or CHReR_d, and R'2 represents H; it being understood that R1 and R2 cannot at the same time be H or that R1 and R2 or R2 and R1 cannot be one (CH2)m-NR_aR_b or R_c or H and the other one OH, or one H and the other one NH2, or one H and the other one (CH2)m-NR_aR_b in which R_a and R_b represent H or alkyl or C(O)R_d, in which R_d represents an unsubstituted alkyl or cycloalkyl; or R1 has the above definition except H and R2 and R'2 together represent gem dialkyl or alkyl-oxime, or R2 and R'2 represent respectively R_c or R_d and OH, NH2, NHR_c or NHR_f, R_f being a (C1-C7) acyl radical; or R1 represents H and R2 and R'2 together represent alkyl-oxime or one represents R_c and the other one represents OH, NH2, NHR_c or NHR_f; n is 0 or 1; R3 and R'3 represent H or (C1-C6) alkyl optionally substituted by 1 to 3 halogens or R3 represents (C1-C6) alkoxy carbonyl and R'3 represents H; R4 represents methyl optionally substituted by halogen; R5 represents H, (C1-C6) alkyl or (C7-C12) arylalkyl; R6 represents H, fluorine, NO2, CF3 or CN; in the form of enantiomers or mixtures, as well as their salts with acids and bases; their preparation and their application as anti-bacterials, in both human and veterinary medicine.

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